Declass Review by NIMA/DOD

19 March 1962

MEMORANDUM FOR: Chief, Technical Plans & Development Staff

SUBJECT:

Staff Study, Proposed Technical Changes in the Camera Calibrator Contract

25X1A

25X1A

1. PROBLEM

25X1A

25X1A

has requested permission to change the technical specifications of the Camera Calibrator Contract, 25X1A as outlined in their correspondence of 4 January 1962, and 19 January 1962.

2. FACTS

The calibrator that

to be the first of its kind. In reviewing the development of the equipment,
various improvements in the scope of the instrument have become necessary
to insure adequate flexibility to meet NPIC needs. The total cost required
for the changes is

The requested changes are:

- a. Since the operation of the autocollimator from a sitting position is not considered to be a significant requirement, increase the height of the autocollimator to 62 inches for a greater distance between the collimator lens and the autocollimator. Increase height of target plane to 12 inches from floor for easy access to replace lamps and for foot clearance. Increase the approximate height to table from 24 inches to 30 inches. Over-all height not to exceed 6 feet.
- b. Install a bulb's eye level on the autocollimator, camera stage, and collimator lens assembly for rough leveling.
- c. Install a mercury on-off switch for manual exposure control for use on long exposures beyond range of timer.
- d. Select an electric impulse counter with as large numerals as is feasible.
- e. Consecutively number all targets.
- f. Install fiducial illumination.
- g. Install standard safelight with series OA, II, and III filters to autocollimator frame.

- h. Install access doors for entrance to top of target area.
- i. Constant voltage regulator with standard three wire plug.
- J. Proposal Spec. Item b, delete "24 x 36 mm" and insert "square".
 (This item to make targets compatible with square formats.)
- k. Proposal Spec. Item g, delete "45" and insert "49". (This is a change in the number of neutral density filters required due to changes in the number of targets from 45 to 49.)
- 1. Proposal Spec. Item n, delete sentence and insert "Place 12 additional targets at half-angles of 15° , 19^{10}_{2} , and 20° on diagonals of a rectangular format to accommodate cameras with a 24×36 mm format. (This item to make targets compatible with rectangular formats.)

3. DISCUSSION

Additional units are also being considered for purchase by Navy PIC and White Sands Missile Range. After reviewing the development of the instrument by the various technical representatives, modifications were suggested to improve the versatility and performance of the calibrator. While all of these modifications are not of direct interest to NPIC, none restrict the instrument for our use and could be useful in the future. The increase in price requested is considered very small in relation to the improvements over the original instrument as contracted for. For additional information on specific points of interest to MPIC, refer to the memo of 25 January 1962 to Chief, TID from Chief, TID/TAB on the camera calibrator.

4. CONCLUSION

If it is decided not to accept the proposed technical changes, the calibrator will not adequately fill MPIC's need for a highly versatile camera calibrator. The changes as requested reflect our experience with the present wide angle calibrator now in TID and are considered necessary to improve the instrument.

25X1A

5. RECOMMENDATION

25X1A

It is recommended that the technical changes as requested in correspondence of 4 and 19 January 1962 be accepted as presented.

AC/TDB

25X1A

MPIC/TPADS/TDB: df(3591)

January 4, 1962

Central Intelligence Agency Washington 25, D. C.

Attention:

Contracting Officer

25X1A

25X1A

Subject:

Proposed technical changes

Reference: Contract

lated

19 June 1961, Article 8, CHANGES, page 4.

Gentlemen:

The following proposed technical changes are presented for your review and consideration in the interest of increased operational efficiency of the Normal Angle Camera Calibrator:

- a. Since the operation of the autocollimator from a sitting position is not considered to be a significant requirement, increase the height of the autocollimator to 62 inches for a greater distance between the collimator lens and the autocollimator. Increase height of target plane to 12 inches from floor for easy access to replace lamps and for foot clearance. Increase the approximate height to table from 24" to 30". Overall height is not to exceed 6 feet.
- b. Install a bull's eye level on the autocollimator, camera stage, and collimator lens assembly for rough leveling.
- c. Install a mercury on/off switch for manual exposure control for use on long exposures beyond range of timer.
- d. Select an electric impulse counter with as large numerals as is feasible.
- e. Consecutively number all targets.
- f. Install fiducial illumination.
- g. Install standard safelight with series OA, II, and III filters to autocollimator frame.
- h. Install access doors for entrance to top of target area.

- i. Constant voltage regulator with standard three wire plug.
- j. Proposal Spec. Item b, delete "24 x 36 mm" and insert "square". See Figure 2 (Rev.).
- k. Proposal Spec. Item g, delete "45" and insert "49".
- 1. Proposal Spec. Item n, delete sentence and insert "Place 12 additional targets at half-angles of 15°, 17 1/2°, and 20° on diagonals of a rectangular format to accommodate cameras with a 24 x 36 mm format." See Figure 2 (Rev.).

The technical changes listed in our letter dated October 11, 1961 (at no increase in cost but for a consideration of extending the delivery date to May, 1962) were based on a visit to White Sands Missile Range on October 2, 1961. The above listed technical changes are based on a visit to the U. S. Naval Photographic Interpretation Center on November 22, 1961.

The proposed technical changes will be accomplished for an increase in selling price of and no change in the requested delivery date of May, 1962.

Your consideration of this proposal is appreciated.

Very truly yours,

25X1A

25X1A President

Enclosures

1 egend | Qty. | Qty. | Approved For Release 2001/04/02: CIA-RDP78B04747A000600050006-5 $\frac{20}{65}$ • Center cross Only Total • • • • \odot • • • \odot • 2 1/2° Intervals • • • 1° Intervals • • • • • • • • • •

•

•